

Species Tag:	52011	Species Name:	CH2F2-v4
Version:	1		Diffuoro methane,
Date:	Nov. 1989		$\nu_4$ state
Contributor:	H. M. Pickett		

Lines Listed:	7808	Q(300.0)=	55398.785
Freq. (GHz) <	3189	Q(225.0)=	34017.324
Max. J:	79	Q(150.0)=	17992.842
LOGSTR0=	-8.0	Q(75.00)=	6324.120
LOGSTR1=	-7.0	Q(37.50)=	2239.752
Isotope Corr.:	0.0	Q(18.75)=	794.877
Egy. (cm <sup>-1</sup> ) >	528.5	Q(9.375)=	283.270
$\mu_a$ =		A=	49480.535
$\mu_b$ =	1.9785	B=	10582.942
$\mu_c$ =		C=	9216.495

Far-infrared spectra are from M. Carlotti *et al.*, 1988, J. Mol. Spect. **132**, 158. These frequencies were multiplied by 0.9999982 to bring the ground state lines more in agreement with the microwave and submillimeter data. The dipole moment is from K. Kawaguchi and T. Tanaka, 1986, J. Mol. Spect. **68**, 125. The partition function includes allowance for the vibrational states.